

Miguel A Sotelo

List of Publications by Year in descending order

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Version: 2024-02-01

167
papers

4,720
citations

126858

33
h-index

128225

60
g-index

173
all docs

173
docs citations

173
times ranked

3825
citing authors

#	ARTICLE	IF	CITATIONS
1	A high-performance neural network vehicle dynamics model for trajectory tracking control. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2023, 237, 1695-1709.	1.1	5
2	Pedestrian Motion Trajectory Prediction in Intelligent Driving from Far Shot First-Person Perspective Video. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 5298-5313.	4.7	53
3	Event-Triggered H_{∞} Load Frequency Control for Multi-Area Nonlinear Power Systems Based on Non-Fragile Proportional Integral Control Strategy. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 12191-12201.	4.7	46
4	Event-Triggered Adaptive Neural Fault-Tolerant Control of Underactuated MSVs With Input Saturation. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 7045-7057.	4.7	82
5	Design, Fabrication, and Testing of a Novel Ferrofluid Soft Capsule Robot. IEEE/ASME Transactions on Mechatronics, 2022, 27, 1403-1413.	3.7	9
6	Event-Triggered Adaptive Fuzzy Setpoint Regulation of Surface Vessels With Unmeasured Velocities Under Thruster Saturation Constraints. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 13463-13472.	4.7	23
7	Voxel-RCNN-Complex: An Effective 3-D Point Cloud Object Detector for Complex Traffic Conditions. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	2.4	13
8	CIBAC: An Improved BA* Based Collaborative Coverage Path Planning Method for Multiple Unmanned Surface Mapping Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 19578-19588.	4.7	16
9	A Novel Reconstruction Method for Temperature Distribution Measurement Based on Ultrasonic Tomography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 2352-2370.	1.7	70
10	Testing Predictive Automated Driving Systems: Lessons Learned and Future Recommendations. IEEE Intelligent Transportation Systems Magazine, 2022, 14, 77-93.	2.6	6
11	SFNet-N: An Improved SFNet Algorithm for Semantic Segmentation of Low-Light Autonomous Driving Road Scenes. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 21405-21417.	4.7	81
12	A novel motion-based online temporal calibration method for multi-rate sensors fusion. Information Fusion, 2022, 88, 59-77.	11.7	2
13	Path Following Optimization for an Underactuated USV Using Smoothly-Convergent Deep Reinforcement Learning. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 6208-6220.	4.7	81
14	Personal Rapid Transport System Compatible With Current Railways and Metros Infrastructure. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 2891-2901.	4.7	2
15	Visual Map-Based Localization for Intelligent Vehicles From Multi-View Site Matching. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 1068-1079.	4.7	10
16	Fault Detection Filter and Controller Co-Design for Unmanned Surface Vehicles Under DoS Attacks. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 1422-1434.	4.7	100
17	A Novel Multimode Hybrid Control Method for Cooperative Driving of an Automated Vehicle Platoon. IEEE Internet of Things Journal, 2021, 8, 5822-5838.	5.5	6
18	Environment-Attention Network for Vehicle Trajectory Prediction. IEEE Transactions on Vehicular Technology, 2021, 70, 11216-11227.	3.9	33

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19	Vehicle Lane Change Prediction on Highways Using Efficient Environment Representation and Deep Learning. IEEE Access, 2021, 9, 119454-119465.	2.6	6
20	Adaptive Neural Output Feedback Control for MSVs With Predefined Performance. IEEE Transactions on Vehicular Technology, 2021, 70, 2994-3006.	3.9	61
21	Georeferencing kinematic modeling and error correction of terrestrial laser scanner for 3D scene reconstruction. Automation in Construction, 2021, 126, 103673.	4.8	2
22	CAPformer: Pedestrian Crossing Action Prediction Using Transformer. Sensors, 2021, 21, 5694.	2.1	15
23	Urban Intersection Classification: A Comparative Analysis. Sensors, 2021, 21, 6269.	2.1	5
24	Design a Novel Target to Improve Positioning Accuracy of Autonomous Vehicular Navigation System in GPS Denied Environments. IEEE Transactions on Industrial Informatics, 2021, 17, 7575-7588.	7.2	23
25	Creating navigation map in semi-open scenarios for intelligent vehicle localization using multi-sensor fusion. Expert Systems With Applications, 2021, 184, 115543.	4.4	12
26	YOLOv4-5D: An Effective and Efficient Object Detector for Autonomous Driving. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	2.4	142
27	Using Weighted Total Least Squares and 3-D Conformal Coordinate Transformation to Improve the Accuracy of Mobile Laser Scanning. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 203-217.	2.7	9
28	Navigational risk assessment of Three Gorges ship lock: Field data analysis using intelligent expert system. Journal of Intelligent and Fuzzy Systems, 2020, 38, 1197-1202.	0.8	2
29	Testing and Evaluating Driverless Vehicles' Intelligence: The Tsinghua Lion Case Study. IEEE Intelligent Transportation Systems Magazine, 2020, 12, 10-22.	2.6	9
30	Lane Work-Schedule of Toll Station Based on Queuing Theory and PSO-LSTM Model. IEEE Access, 2020, 8, 84434-84443.	2.6	21
31	UB-LSTM: A Trajectory Prediction Method Combined with Vehicle Behavior Recognition. Journal of Advanced Transportation, 2020, 2020, 1-12.	0.9	20
32	A Magnetorheological Fluid-Filled Soft Crawling Robot With Magnetic Actuation. IEEE/ASME Transactions on Mechatronics, 2020, 25, 2700-2710.	3.7	39
33	An Improved LSTM Model for Behavior Recognition of Intelligent Vehicles. IEEE Access, 2020, 8, 101514-101527.	2.6	12
34	A new bionic lateral line system applied to pitch motion parameters perception for autonomous underwater vehicles. Applied Ocean Research, 2020, 99, 102142.	1.8	27
35	A Novel Multifeature Based On-Site Calibration Method for LiDAR-IMU System. IEEE Transactions on Industrial Electronics, 2020, 67, 9851-9861.	5.2	23
36	Hybrid Dynamic Traffic Model for Freeway Flow Analysis Using a Switched Reduced-Order Unknown-Input State Observer. Sensors, 2020, 20, 1609.	2.1	4

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37	A Novel Surface Inset Permanent Magnet Synchronous Motor for Electric Vehicles. <i>Symmetry</i> , 2020, 12, 179.	1.1	9
38	Compensation of Geometric Parameter Errors for Terrestrial Laser Scanner by Integrating Intensity Correction. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 7483-7495.	2.7	2
39	Pedestrian Path, Pose, and Intention Prediction Through Gaussian Process Dynamical Models and Pedestrian Activity Recognition. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2019, 20, 1803-1814.	4.7	95
40	Hierarchical Fuzzy Logic-Based Variable Structure Control for Vehicles Platooning. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2019, 20, 1329-1340.	4.7	34
41	A novel sparse representation model for pedestrian abnormal trajectory understanding. <i>Expert Systems With Applications</i> , 2019, 138, 112753.	4.4	64
42	A New Switched State Jump Observer for Traffic Density Estimation in Expressways Based on Hybrid-Dynamic-Traffic-Network-Model. <i>Sensors</i> , 2019, 19, 3822.	2.1	6
43	Practical Sensing Techniques for Intelligent Vehicles [Guest Editorial]. <i>IEEE Intelligent Transportation Systems Magazine</i> , 2019, 11, 5-C3.	2.6	0
44	Rough Set Based Method for Vehicle Collision Risk Assessment Through Inferring Driver's Braking Actions in Near-Crash Situations. <i>IEEE Intelligent Transportation Systems Magazine</i> , 2019, 11, 54-69.	2.6	16
45	A Robust Registration Method for Autonomous Driving Pose Estimation in Urban Dynamic Environment Using LiDAR. <i>Electronics (Switzerland)</i> , 2019, 8, 43.	1.8	25
46	Short-term vessel traffic flow forecasting by using an improved Kalman model. <i>Cluster Computing</i> , 2019, 22, 7907-7916.	3.5	15
47	A novel image recognition algorithm of target identification for unmanned surface vehicles based on deep learning. <i>Journal of Intelligent and Fuzzy Systems</i> , 2019, 37, 4437-4447.	0.8	8
48	The Experience of DRIVERTIVE-DRIVERless cooperative Vehicle-Team in the 2016 GCDC. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2018, 19, 1322-1334.	4.7	18
49	At the Core of Intelligent Transportation Technologies [President's Message]. <i>IEEE Intelligent Transportation Systems Magazine</i> , 2018, 10, 3-5.	2.6	1
50	An Innovative Osmotic Computing Framework for Self Adapting City Traffic in Autonomous Vehicle Environment. , 2018, , .		8
51	High-Level Interpretation of Urban Road Maps Fusing Deep Learning-Based Pixelwise Scene Segmentation and Digital Navigation Maps. <i>Journal of Advanced Transportation</i> , 2018, 2018, 1-15.	0.9	5
52	From Intelligent Vehicles to Smart Societies: A Parallel Driving Approach. <i>IEEE Transactions on Computational Social Systems</i> , 2018, 5, 594-604.	3.2	20
53	Energy Dissipation Based Longitudinal and Lateral Coupling Control for Intelligent Vehicles. <i>IEEE Intelligent Transportation Systems Magazine</i> , 2018, 10, 121-133.	2.6	8
54	Multiscale Site Matching for Vision-Only Self-Localization of Intelligent Vehicles. <i>IEEE Intelligent Transportation Systems Magazine</i> , 2018, 10, 170-183.	2.6	18

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55	Assistive Intelligent Transportation Systems: The Need for User Localization and Anonymous Disability Identification. IEEE Intelligent Transportation Systems Magazine, 2017, 9, 25-40.	2.6	17
56	Image Sequence Matching Using Both Holistic and Local Features for Loop Closure Detection. IEEE Access, 2017, 5, 13835-13846.	2.6	14
57	Deep fully convolutional networks with random data augmentation for enhanced generalization in road detection. , 2017, , .		32
58	A Hybrid Vision-Map Method for Urban Road Detection. Journal of Advanced Transportation, 2017, 2017, 1-21.	0.9	16
59	WiFi SLAM algorithms: an experimental comparison. Robotica, 2016, 34, 837-858.	1.3	13
60	Comparison between UHF RFID and BLE for Stereo-Based Tag Association in Outdoor Scenarios. , 2016, , .		6
61	ITS Magazine Selected for Coverage in JCR [Editor's Column]. IEEE Intelligent Transportation Systems Magazine, 2015, 7, 3-3.	2.6	0
62	A Growing Magazine for a Growing Society [Editor's Column]. IEEE Intelligent Transportation Systems Magazine, 2015, 7, 3-3.	2.6	0
63	ITS and Emergent Technologies [Editor's Column]. IEEE Intelligent Transportation Systems Magazine, 2015, 7, 2-2.	2.6	0
64	A Comparative Analysis of Decision Trees Based Classifiers for Road Detection in Urban Environments. , 2015, , .		11
65	Lightweight Occupancy Estimation on Freeways Using Extended Floating Car Data. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2014, 18, 149-163.	2.6	13
66	Pedestrian path prediction based on body language and action classification. , 2014, , .		30
67	New Conductor, Same Orchestra [Editor's Column]. IEEE Intelligent Transportation Systems Magazine, 2014, 6, 2-2.	2.6	0
68	Special Issue on the 2013 IEEE Intelligent Vehicles Symposium & Workshop [Guest Editorial]. IEEE Intelligent Transportation Systems Magazine, 2014, 6, 5-7.	2.6	0
69	ITS at the Cutting Edge [Editor's Column]. IEEE Intelligent Transportation Systems Magazine, 2014, 6, 3-3.	2.6	0
70	Keynote lecture pedestrian path prediction and action classification using Computer Vision and body language traits. , 2014, , .		0
71	Vehicle model recognition using geometry and appearance of car emblems from rear view images. , 2014, , .		30
72	Pedestrian path prediction using body language traits. , 2014, , .		39

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73	Road curb and lanes detection for autonomous driving on urban scenarios. , 2014, , .		21
74	Hierarchical camera auto-calibration for traffic surveillance systems. Expert Systems With Applications, 2014, 41, 1532-1542.	4.4	23
75	Parking Assistance System for Leaving Perpendicular Parking Lots: Experiments in Daytime/Nighttime Conditions. IEEE Intelligent Transportation Systems Magazine, 2014, 6, 57-68.	2.6	8
76	From ITS to ETS [Editor's Column]. IEEE Intelligent Transportation Systems Magazine, 2014, 6, 4-4.	2.6	4
77	Vision-based parking assistance system for leaving perpendicular and angle parking lots. , 2013, , .		4
78	Real-time vision-based blind spot warning system: Experiments with motorcycles in daytime/nighttime conditions. International Journal of Automotive Technology, 2013, 14, 113-122.	0.7	16
79	Camera auto-calibration using zooming and zebra-crossing for traffic monitoring applications. , 2013, , .		6
80	Vehicle logo recognition in traffic images using HOG features and SVM. , 2013, , .		82
81	Special Issue on 2012 IEEE Intelligent Vehicles Symposium [Guest Editorial]. IEEE Intelligent Transportation Systems Magazine, 2013, 5, 8-9.	2.6	0
82	The 2013 IEEE Intelligent Vehicles Symposium (IEEE-IV?13) Sofitel Broadbeach, Gold Coast, Australia [Conference Reports]. IEEE Intelligent Transportation Systems Magazine, 2013, 5, 169-172.	2.6	0
83	Autonomous Navigation and Obstacle Avoidance of a Micro-Bus. International Journal of Advanced Robotic Systems, 2013, 10, 212.	1.3	15
84	Universidad de Alcalá. , 2013, , .		0
85	Special Issue on IEEE IV 2012 Workshops: Part 1 of 2 [Guest Editorial]. IEEE Intelligent Transportation Systems Magazine, 2013, 5, 6-7.	2.6	0
86	2012 IEEE Intelligent Vehicles Symposium 3-7 June, Alcal de Henares, Spain [Conference Report]. IEEE Intelligent Transportation Systems Magazine, 2012, 4, 54-55.	2.6	1
87	Free space and speed humps detection using lidar and vision for urban autonomous navigation. , 2012, , .		25
88	Monocular target detection on transport infrastructures with dynamic and variable environments. , 2012, , .		3
89	Accurate Global Localization Using Visual Odometry and Digital Maps on Urban Environments. IEEE Transactions on Intelligent Transportation Systems, 2012, 13, 1535-1545.	4.7	76
90	Stereo regions-of-interest selection for pedestrian protection: A survey. Transportation Research Part C: Emerging Technologies, 2012, 25, 226-237.	3.9	40

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91	Intelligent automatic overtaking system using vision for vehicle detection. Expert Systems With Applications, 2012, 39, 3362-3373.	4.4	107
92	Vision-based active safety system for automatic stopping. Expert Systems With Applications, 2012, 39, 11234-11242.	4.4	27
93	Extended Floating Car Data System: Experimental Results and Application for a Hybrid Route Level of Service. IEEE Transactions on Intelligent Transportation Systems, 2012, 13, 25-35.	4.7	19
94	Introduction to the Special Issue on Emergent Cooperative Technologies in Intelligent Transportation Systems. IEEE Transactions on Intelligent Transportation Systems, 2012, 13, 1-5.	4.7	27
95	Surface Classification for Road Distress Detection System Enhancement. Lecture Notes in Computer Science, 2012, , 600-607.	1.0	2
96	Monocular Vision-Based Target Detection on Dynamic Transport Infrastructures. Lecture Notes in Computer Science, 2012, , 576-583.	1.0	3
97	Automatic Traffic Signs and Panels Inspection System Using Computer Vision. IEEE Transactions on Intelligent Transportation Systems, 2011, 12, 485-499.	4.7	61
98	Visual odometry and map fusion for GPS navigation assistance. , 2011, , .		21
99	Drowsiness monitoring based on driver and driving data fusion. , 2011, , .		34
100	Autonomous Pedestrian Collision Avoidance Using a Fuzzy Steering Controller. IEEE Transactions on Intelligent Transportation Systems, 2011, 12, 390-401.	4.7	152
101	Enhanced WiFi localization system based on Soft Computing techniques to deal with small-scale variations in wireless sensors. Applied Soft Computing Journal, 2011, 11, 4677-4691.	4.1	26
102	A vision-based system for automatic hand washing quality assessment. Machine Vision and Applications, 2011, 22, 219-234.	1.7	37
103	Automatic LightBeam Controller for driver assistance. Machine Vision and Applications, 2011, 22, 819-835.	1.7	42
104	Robust traffic signs detection by means of vision and V2I communications. , 2011, , .		19
105	Extended Floating Car Data system - experimental study. , 2011, , .		3
106	Adaptive Road Crack Detection System by Pavement Classification. Sensors, 2011, 11, 9628-9657.	2.1	259
107	Traffic Data Collection for Floating Car Data Enhancement in V2I Networks. Eurasip Journal on Advances in Signal Processing, 2010, 2010, .	1.0	24
108	Robust visual odometry for vehicle localization in urban environments. Robotica, 2010, 28, 441-452.	1.3	35

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109	Perception advances in outdoor vehicle detection for automatic cruise control. <i>Robotica</i> , 2010, 28, 765-779.	1.3	11
110	Error Analysis in a Stereo Vision-Based Pedestrian Detection Sensor for Collision Avoidance Applications. <i>Sensors</i> , 2010, 10, 3741-3758.	2.1	31
111	Stereo Vision Tracking of Multiple Objects in Complex Indoor Environments. <i>Sensors</i> , 2010, 10, 8865-8887.	2.1	22
112	Vision-Based Traffic Data Collection Sensor for Automotive Applications. <i>Sensors</i> , 2010, 10, 860-875.	2.1	18
113	Clavileño: Evolution of an autonomous car. , 2010, , .		22
114	Automatic information recognition of traffic panels using SIFT descriptors and HMMs. , 2010, , .		6
115	Automatic training method applied to a WiFi+ultrasound POMDP navigation system. <i>Robotica</i> , 2009, 27, 1049-1061.	1.3	9
116	Face tracking and pose estimation with automatic three-dimensional model construction. <i>IET Computer Vision</i> , 2009, 3, 93.	1.3	14
117	An Experimental Study on Pitch Compensation in Pedestrian-Protection Systems for Collision Avoidance and Mitigation. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2009, 10, 469-474.	4.7	36
118	Automatic information extraction of traffic panels based on computer vision. , 2009, , .		6
119	Interoperable Control Architecture for Cybercars and Dual-Mode Cars. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2009, 10, 146-154.	4.7	22
120	Real-Time Vision-Based Vehicle Detection for Rear-End Collision Mitigation Systems. <i>Lecture Notes in Computer Science</i> , 2009, , 320-325.	1.0	11
121	WiFi Localization System Using Fuzzy Rule-Based Classification. <i>Lecture Notes in Computer Science</i> , 2009, , 383-390.	1.0	8
122	3D Visual Odometry for Road Vehicles. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2008, 51, 113-134.	2.0	21
123	Blind spot detection using vision for automotive applications. <i>Journal of Zhejiang University: Science A</i> , 2008, 9, 1369-1372.	1.3	25
124	Night time vehicle detection for driving assistance lightbeam controller. , 2008, , .		45
125	Robot and obstacles localization and tracking with an external camera ring. , 2008, , .		6
126	Automatic Daytime Road Traffic Control and Monitoring System. , 2008, , .		17

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127	Robust visual odometry for complex urban environments. , 2008, , .		4
128	Visual Monitoring of Driver Inattention. Studies in Computational Intelligence, 2008, , 19-37.	0.7	16
129	A Bayesian Solution to Robustly Track Multiple Objects from Visual Data. Studies in Computational Intelligence, 2008, , 531-547.	0.7	0
130	Tracking Multiple Objects Using a Kalman Filter and a Probabilistic Association Process. , 2007, , .		2
131	Comparing a Kalman Filter and a Particle Filter in a Multiple Objects Tracking Application. , 2007, , .		15
132	People Location System based on WiFi Signal Measure. , 2007, , .		7
133	Extraction of 3D Features from Complex Environments in Visual Tracking Applications. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2007, , .	0.0	3
134	Tracking using Particle and Kalman Filters in Hand Washing Quality Assessment System. , 2007, , .		0
135	Combination of Feature Extraction Methods for SVM Pedestrian Detection. IEEE Transactions on Intelligent Transportation Systems, 2007, 8, 292-307.	4.7	135
136	2D Visual Odometry method for Global Positioning Measurement. , 2007, , .		3
137	Using Fuzzy Logic in Automated Vehicle Control. IEEE Intelligent Systems, 2007, 22, 36-45.	4.0	89
138	Visual odometry for road vehiclesâ€™ feasibility analysis. Journal of Zhejiang University: Science A, 2007, 8, 2017-2020.	1.3	3
139	Comparative study of chained systems theory and fuzzy logic as a solution for the nonlinear lateral control of a road vehicle. Nonlinear Dynamics, 2007, 49, 463-474.	2.7	5
140	Knowledge-based Intelligent Diagnosis of Ground Robot Collision with Non Detectable Obstacles. Journal of Intelligent and Robotic Systems: Theory and Applications, 2007, 48, 539-566.	2.0	17
141	Adaptive Fuzzy Sliding Mode Controller for the Kinematic Variables of an Underwater Vehicle. Journal of Intelligent and Robotic Systems: Theory and Applications, 2007, 49, 189-215.	2.0	56
142	Low level controller for a POMDP based on WiFi observations. Robotics and Autonomous Systems, 2007, 55, 132-145.	3.0	11
143	Comparison of WiFi Map Construction Methods for WiFi POMDP Navigation Systems. , 2007, , 1216-1222.		1
144	A Bayesian Solution to Track Multiple and Dynamic Objects Robustly from Visual Data. , 2006, , .		0

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145	Real-Time System for Monitoring Driver Vigilance. IEEE Transactions on Intelligent Transportation Systems, 2006, 7, 63-77.	4.7	544
146	Bounding Box Accuracy in Pedestrian Detection for Intelligent Transportation Systems. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	6
147	Training Method Improvements of a WiFi Navigation System Based on POMDP. , 2006, , .		4
148	3D-Visual Detection of Multiple Objects and Structural Features in Complex and Dynamic Indoor Environments. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	0
149	Real Time Driving-Aid System for Different Lighting Conditions, on Board a Road Vehicle. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	2
150	Control of a Robotic Wheelchair Using Recurrent Networks. Autonomous Robots, 2005, 18, 5-20.	3.2	7
151	Road Vehicle Recognition in Monocular Images. , 2005, , .		7
152	Indoor Robot Localization System Using WiFi Signal Measure and Minimizing Calibration Effort. , 2005, , .		39
153	"XPFCP": an extended particle filter for tracking multiple and dynamic objects in complex environments. , 2005, , .		10
154	Clustering methods for 3D vision data and its application in a probabilistic estimator for tracking multiple objects. , 2005, , .		3
155	Indoor robot navigation using a POMDP based on WiFi and ultrasound observations. , 2005, , .		17
156	A Color Vision-Based Lane Tracking System for Autonomous Driving on Unmarked Roads. Autonomous Robots, 2004, 16, 95-116.	3.2	113
157	VIRTUOUS: Vision-Based Road Transportation for Unmanned Operation on Urban-Like Scenarios. IEEE Transactions on Intelligent Transportation Systems, 2004, 5, 69-83.	4.7	90
158	Lateral control strategy for autonomous steering of Ackerman-like vehicles. Robotics and Autonomous Systems, 2003, 45, 223-233.	3.0	74
159	Vision Based Intelligent System for Autonomous and Assisted Downtown Driving. Lecture Notes in Computer Science, 2003, , 326-336.	1.0	2
160	ADVOCATE II: ADVanced On-Board Diagnosis and Control of Autonomous Systems II. Lecture Notes in Computer Science, 2003, , 302-313.	1.0	7
161	An integral system for assisted mobility [automated wheelchair]. IEEE Robotics and Automation Magazine, 2001, 8, 46-56.	2.2	100
162	Unsupervised and adaptive Gaussian skin-color model. Image and Vision Computing, 2000, 18, 987-1003.	2.7	64

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163	Automation of an Industrial Fork Lift Truck, Guided by Artificial Vision in Open Environments. Autonomous Robots, 1998, 5, 215-231.	3.2	14
164	Vehicle fuzzy driving based on DGPS and vision. , 0, , .		6
165	Fusing odometric and vision data with an EKF to estimate the absolute position of an autonomous mobile robot. , 0, , .		3
166	Traffic sign detection in static images using Matlab. , 0, , .		5
167	Vision-based navigation system for autonomous urban transport vehicles in outdoor environments. , 0, , .		2